	CLASSIFICATION SECRET CENTRAL INTELLIGENCE AGE INFORMATION REI		50X1-HUM
COUNTRY	Hungary Hungarian Coal Mining	DATE DISTR. 28 Oct 19	54
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Coal Production

- Hungary's coal production averaged during peacetime nine million metric tons per year. During the first years of World War II the production increased to about 10 million metric tons a year until 1942, then decreased again on account of the difficulties caused by the shortage of suriliary materials.
- The equipment of the mines was worn out during World War II; after the war the entire coal mining industry was in a désolate condition. The Communists began their forced industrialisation program in 1948 and coal mining became again one of the most important factors of the mation's economy. The target in 1950 was 12,500,000 metric tons and the elevated target for 1952 was 18,500,000 metric tons. 2.
- These targets were never fulfilled. There were months in the last part of 1951 during which the miners produced only about 75% of the target in the year's average, but there were individual months when the production decreased to 62-64% of the official targets. This was a result of the obsolate condition of the equipment and the bad morals of the miners. In September of 1951 the shortage of food was the worst and this even after an excallent harvest. The bulk of the Bungarian crop was experted to other Satellite States (Csechoslovakia, East Gersany.).

The Bangarian Coal Reserves

Among the different estimates the most up-to-date is that of A <u>Vitalis</u> made in 1946. The data are as follows:

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	Actual reserves	Probable reserves
Bituminous coal	215	250
Brown coal, higher quality (Eccene, Oligocene)	455	273
Brown coal, medium (Miocene, Oretaceous /sic/)	417	
Brown coal, lower quality	4-1	379
(Pliocene)	104	939
Total	1,191	1,841

5. The deposits are located geographically as follows:

Quality of Coal	Name of district
Bituminous	Mecsek
Brown coal	Tatabanya Esstergom Mor Pilis
	Ajka Varpalota Brennbergbanya Salgotarjan
Lignite	Borsod Northern Borsod Mozokovesd Matre-Bukk

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6. There are extended peat deposits in Hungary, mostly at the Transdamubia, the surroundings of the city Szekesfehervar. The exploitation of the peat began during firm; after the war the government succeeded

7. The mines at Komló (in the Mecsek district), Ajka, Varpalota and Borsod were 50)

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- S. The government intends to build two new miners' towns, one at Varpalota and the other at Sajossentpeter (Borsod district). Each of the towns will have a probable twenty thousand inhabitants.
- After World War II both in Hungary and Csechoslovakia, there was a serious shertage of manpower in the mining industry. The sons of the miners had joined the army or the police, where the working conditions were comparatively far better. How the government mines a great effort to recruit miners; therefore it erects new cities exclusively for the miners. The housing conditions are far better than elsewhere in the country. The miners have then himseling and there are government-owned department stores where the prices are 27 percent lower than elsewhere,
- 10. Mining of the high-grade brown coal is very promising. This sort of Hungarian coal is very usable in industry. The Hungarian power production is based on that coal.
- 11. The average analysis of the best known) Bungarian brown scal (Tatabanya, Salgotarjan) shows the following contents:

Carbon 50g
Rydrogen 4
Onygen 12
Nitrogen 1
Moisture 14
Ashee 16

Calorific value about 5000 saloric ar kilogram.

12. Before World War II, lump production was very important. Now the Rungarian power plants work with pulverised fuel, therefore the grammlation of the coal is not so important. The lump coal produced is more than sufficient for demotic heating purposes.

Maine Makes

13. In general the Bungarian seal sixing ness the rosm-and-pillar method. In general

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blasting the coal is required, therefore the Hungarian coal industry has its own industrial explosive factory (Magyar Iperi Robbano Rt., at Persmarton). The use of compressed air was successfully introduced by the leading coal companies. Between the two world wars the Mak and the Salgotarjan have erected large central compressed air plants. Bore hammer and pick axes were among the mechanical equipment used. (The first compressed air driven drills used in the Hungarian coal industry were imported Savaral types of coal-cutters are also in operation, some were manufactured

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14. Less than 20% of the mined coal is produced by the longwall method. In Hungary long-wall methods differ _______ This longwall method is developed for coal seams of exceedingly large thickness.

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- 15. Coal is hauled mostly by endless rope hauling methods. There are some underground electric-driven rubber-belt conveyors, but there are not too many in use. The lack of mechanization is the cause of the failure of the Hungarian coal mining, The government makes efforts to introduce mechanization of the coal mining, but the Hungarian machine factories do not have the necessary experience in manufacturing coal mining machinery.
- Bamert in Ujpest was the only firm founded before World War II in Hungary for the mining industry. Lately another factory, Hoffher & Schrantz at Budapest, was partly altered to produce mining machines. This latter factory manufactures the "Ajtay" combine (a Hungarian developed mining combine) which is a variant of the Soviet "Dumbas" combine. This combine is not adapted for heavy underground service and will cause great difficulties in the mining operations.

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- 17. Coal is hauled in comparatively small wagonettes to the screening plants where the mechanical classification is made. Other processing of the coal is an unusual operation in Hungary, except for the mines of Mecsek, where the coal is washed and briquetted.
- 18. Electric pumps are used in general for mine drainage. The mines of Dorog (Esztergom district) have enormous difficulties with the mine drainage being below the "water-endangered" levels. There was a special method of mining developed with concrete filling.
- 19. The Hungarian coal mining uses mostly hydraulic backfilling. Tatabanya has developed the most effective backfilling methods. The thickness of seams ranges from six to twenty-five meters, therefore the backfilling is inevitable. But there are plenty or deposits of sand so there are no difficulties with the backfilling.
- 20, In most of the Hungarian mines the gas conditions necessitate the use of safety lamps. Between the two world wars there was a shortage of gasoline and other oils in Hungary, therefore the lamps used in the mining are mostly electric.
- 21. Gas conditions in the Hungarian mines are not heavy at all. In spite of that, in 1951 there occurred the most serious mine accident that has ever happened in the history of European scal mining. About 160 miners were killed in this accident. The neglecting of the meet primitive safety regulations and the forced production were the causes of the accident. Ten hours before the accident it was obvious that the methane content of the air was increasing but the forces did not stop the underground operations.

The Goal Processing

- As mentioned above, for a long while a big problem was the size of the coal that was produced. The average Hungarian coal disintegrates easily. Some mines produce more than 75% below 10 millimeters bushwheat coal. During peacetime the underdeveloped Hungarian industry was not able to use such quantities of this small size, therefore the briquetting industry was repidly developed. Before World War II nine briquetting plants were in operation in Hungary. The increasing power production decreased the importance of the briquetting plants.
- At the present time [1932] the government has begun a big-scale steel program, at the same time Rangary has no metallurgical cohe. Therefore it has done a lot of experimenting to produce metallurgical cohe, especially at the Messak district, and recently at the Boraco district. The fact that these experiments are not very promising is indicated by an agreement the Rangarian government made with Gaschoslovakia in 1951. In the terms of this agreement the Rangarian consemption of metallurgical coke will be imported from Caschoslovakia beginning in 1954.
- 24. At the Mousek district there are washing plants to improve the quality of the coal and there is a pioneer plant using the passantie-eleming process.
- 25. There are two planeer plants (at Dorog and Tatabanya) using the Lurghi process for the low-temperature contemperature of coal. These plants lost a lot of their importance in 1937, then Rungary begin commercial coll.

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		The Outlook of the Hungarian Coal Industry	
<i>:</i>	26,	The Communist government of Hungary has an enormous program for the rapid development of the heavy industry. The demand of industry on electric power is very large compare with present production, but the present time in Hungary three and a half billion kilowatt hours are produced and 90% of the power is produced from soci.	đ
2	27.	Hungary has natural gas deposite in addition to the Lovessi field (formerly operated by the Socony-Vacuum Co) at the breat Hungarian Plain. The wells are drilled at Debrecen and Puspoklathiny. But only one steam plant with 15,000 kw output is in operation at Lovesi.	
Ź	28.	At the present time £95.7, the emphasis is on quantity rather than quality. If the Hungarian ceal industry is to cover the demands of the increasing industry and power production, the ceal production must be increased to an amount of 25 million matric tons a year. The present mining methods make this goal impossible. There is an indication that the government realises this, because in 1951 they made a 25-year agreement with Coccamelovakia, in which Occamelovakia will import yearly half a billion kmb. Later this will be increased to one billion kmb. To suppartise the situation briefly, the Bungarian heavy industry program is, in some respects, a nightman	re.
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